

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2017 / 2018

PCA 0084 – COMPUTER SYSTEM AND WEB DESIGN

(Foundation in Business)

5 MARCH 2018

9.00 a.m. – 11.00 a.m.

(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 3 pages (excluding the cover page) with 5 questions only.
2. Attempt **ALL** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

QUESTION 1 [10 Marks]

- a. Explain briefly the technology used by the Bar Code Readers, RFID Readers and MICR Readers.

(3 marks)

- b. Refer to the table below and answer these questions:

Fields checked	Invalid data
Birth Date	23/05/2011
Registration Date	13/11/1999

- i. Identify the suitable validity check for the data given above. Give **ONE (1)** reason why data above is an invalid data.

(1.5 marks)

- ii. Name another **THREE (3)** validity check that can be used to ensure data integrity in a database.

(1.5 marks)

- c. What is *Green Computing*? Give **THREE (3)** suggestions that user can do to support green computing.

(4 marks)

QUESTION 2 [10 Marks]

- a. State the difference between the parallel ports and serial ports in term of the amount of data transferred at a particular time.

(2 marks)

- b. Between these two ports which one has a faster transfer rate?

(1 mark)

- c. List the **FOUR (4)** arithmetic operations that can be performed by the arithmetic-logic unit.

(2 marks)

- d. List **FOUR (4)** example of logical operation that can be performed the ALU.

(2 marks)

- e. Explain the difference between wired and wireless transmission media. Give **ONE (1)** example each.

(3 marks)

Continued ...

QUESTION 3 [10 Marks]

- a. Computer communication allows people to communicate with each other using applications such as email and instant messaging. By using illustration, suggest **FOUR (4)** components needed for communication to happen between two or more devices and label each of them.
(4 marks)
- b. The efficiency of an operating system handles programs will directly affects user's productivity. Identify the **TWO (2)** methods of handling programs performed by an operating system.
(3 marks)
- c. Multimedia has five different elements, which are text, graphics, animations, audio and video. How do animation different from video?
(3 marks)

QUESTION 4 [10 Marks]

- a. Your friends know that you understand a lot about computers, both the technical details of how they operate as well as information about software. Lately, with all of the concerns about copyright infringement, your friends want to know about software that can be downloaded without any charges. Explain to your friends the three types of software that can be downloaded for free and their limitations, if any.
(4 marks)
- b. Multitasking and multiprocessing are two of the ways the operating system manages programs. How is multitasking different from multiprocessing?
(2 marks)
- c. One of the functions of utility program is disk defragmenter. What is disk defragmenter and why do you need to defragment the hard disk?
(4 marks)

Continued ...

QUESTION 5 [10 Marks]

- a. Fatimah has been receiving spam and it fills up the inbox of her e-mail. Explain to Fatimah what spam is. Suggest **TWO (2)** ways that she can do to reduce spam.

(3 marks)

- b. Unauthorized access is one of major threats in computer security. Access controls are being used to minimize the chance of a perpetrator intentionally may access confidential information on a computer. Discuss briefly what access controls are and different types of access control that are commonly used.

(7 marks)

End of Paper